Title (en)
METHOD FOR DIAGNOSING AUTISM BY ANALYZING BACTERIAL METAGENOME

Title (de)
VERFAHREN ZUR DIAGNOSE VON AUTISMUS DURCH ANALYSE VON BAKTERIELLEM METAGENOM

Title (fr)
PROCÉDÉ DE DIAGNOSTIC DE L'AUTISME PAR ANALYSE DU MÉTAGÉNOME BACTÉRIEN

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Abstract (en)
[origin: EP3636780A1] The present invention relates to a method of diagnosing autism through a bacterial metagenomic analysis and, more specifically, to a method of diagnosing autism by performing a bacterial metagenomic analysis using normal individual-derived and subject-derived samples to analyze an increase or decrease in the content of specific bacteria-derived extracellular vesicles. The extracellular vesicles secreted from microorganisms such as bacteria and archaebacteria present in the environment are absorbed into the human body and distributed to various organs including the brain and thus may directly affect inflammatory responses and brain functions, and before symptoms appear, it is difficult to diagnose autism characterized by inflammation early, and thus it is difficult to efficiently treat autism. Therefore, as the present invention predicts the risk of autism onset in advance through the metagenomic analysis of bacteria-derived extracellular vesicles using human body-derived samples, it is possible to delay the onset time or prevent the onset of autism through proper management following early diagnosis and prediction of an autism risk group, and even after the onset, it is possible to diagnose autism early, thereby lowering the incidence of autism and increasing therapeutic effects.

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